

Series N

Introduction

The Greenpar Series N is a range of screw-coupled, coaxial connectors which are fully interchangeable with those manufactured to U.S. Military Specification MIL-C-39012.

They are available in both 50-ohm and 75-ohm impedance versions and may be used with a broad range of coaxial cables of up to 23mm, (0.9in.) external diameter.

The 50-ohm range is not interchangeable with the 75-ohm range.

Performance

VSWR (typical) : 1.05 up to 4GHz

Working voltage : 1000V peak

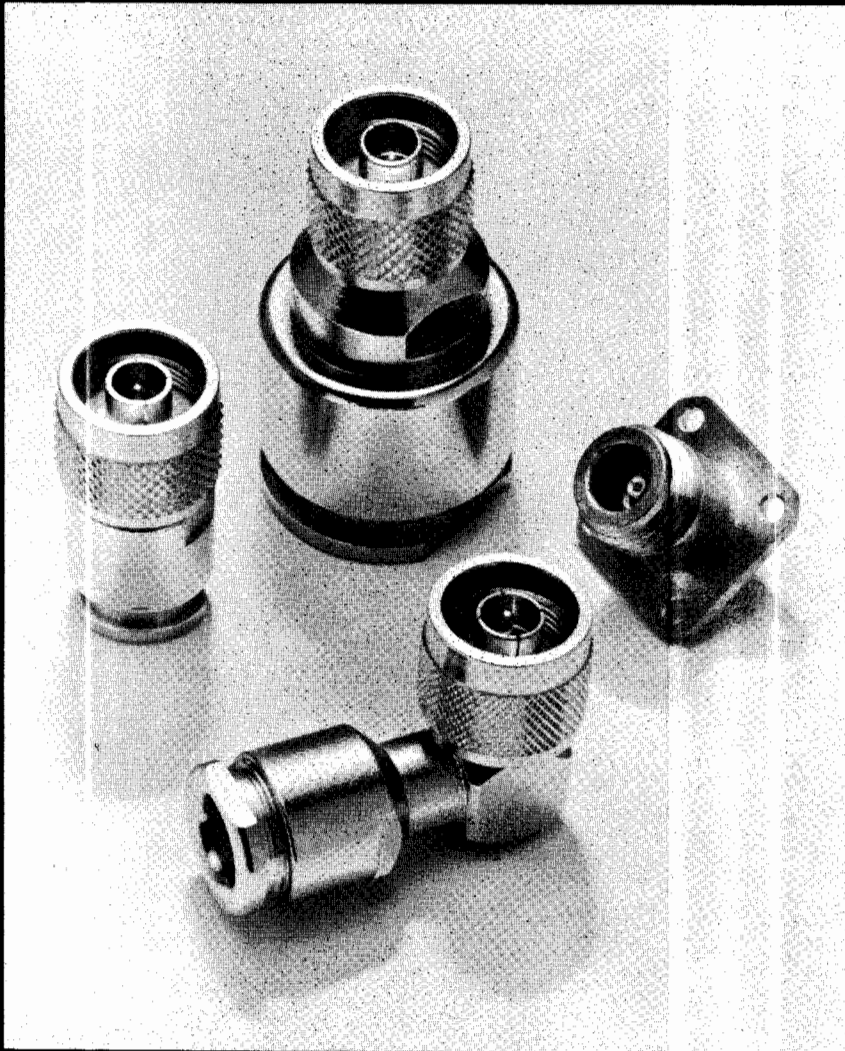
Voltage proof : 2500V peak

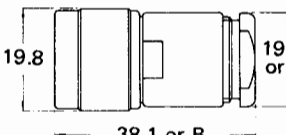
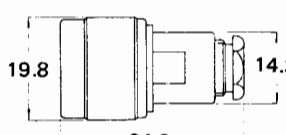
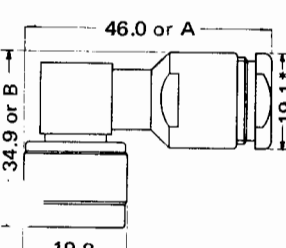
Temperature range : -55 to +150°C

Contents

Series N

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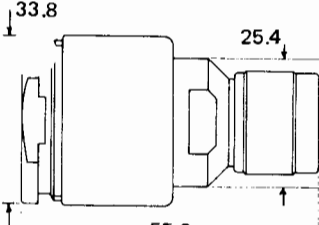
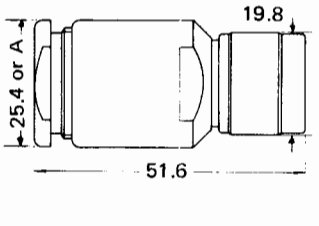
Connector outline	Dim.		Assy. data Fig.	Greenpar Eng. No.		Cable clamp	Cable groups																	
	A	B		50 ohm	75 ohm		1	4	6	7	10	12	25	27	30	52	60	62	73	79	107			
UGS  	18.3	44.5	3 or 15	15001	17001	A or —																		
15			—																					
3 or 15			15013			A or —																		
3 or 1			15015	17015	A or —																			
4			15015		C																			
3					A																			
4				17015	C																			
6 or 5			15055	17055	A or —																			
7			15055		C																			
6					A																			
7		17055	C																					
ELBOW PLUGS 	42.9	32.9	3 or 2	15003	17003	A or —																		
4			15003	C																				
3				A																				
4				17003	C																			
6			15074	17074	A																			
7					15074	C																		
6						A																		
7				17074	C																			

* 15074 and 17074: 14.3mm.

*15074 and 17074: 14.3mm.

PLUGS FOR CABLES EXCEEDING 12.7 mm. dia.

CABLE GROUPS:

							18	19	20	81	223	246	247	253	274
 	28.6	9	15035	17035	C										
		8	15064	17064	C										
		14	15064		W										
		8			C										
		14		17064	W										
		8	15066	17066	C										
		14	15066		W										
		8			C										
		14		17066	W										

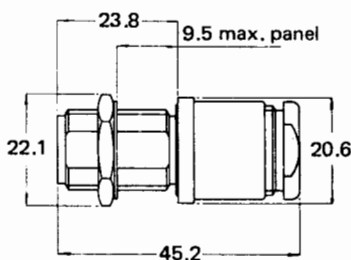
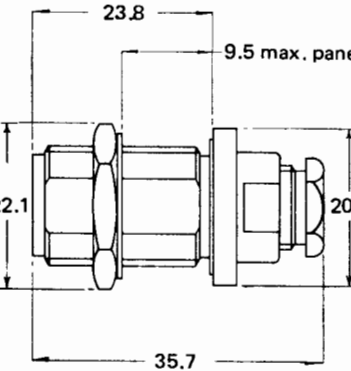
ORDERING INFORMATION

Order, please specify GREENPAR ENGINEERING No., CABLE CLAMP and CABLE GROUP. e.g. GE 15035C18.

JACKS and ELBOW JACKS

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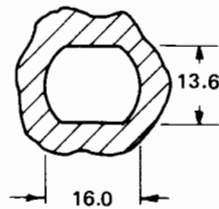
BULKHEAD JACKS

Connector outline	Assy. data Fig.	Greenpar Eng. No. 50-ohm 75-ohm	Cable clamp	Cable groups															
				1	4	6	7	10	12	25	27	30	52	60	62	73	79	107	
BULKHEAD JACKS  	12 or 11	15032	A or —																
	13	15032	C																
	12	17032	A																
	13	17032	C																
	6	15041	A																
	7	15041	C																
	6	17041	A																
	7	17041	C																

ORDERING INFORMATION

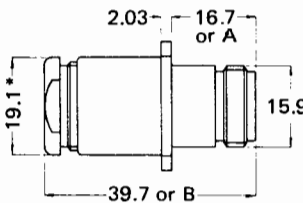
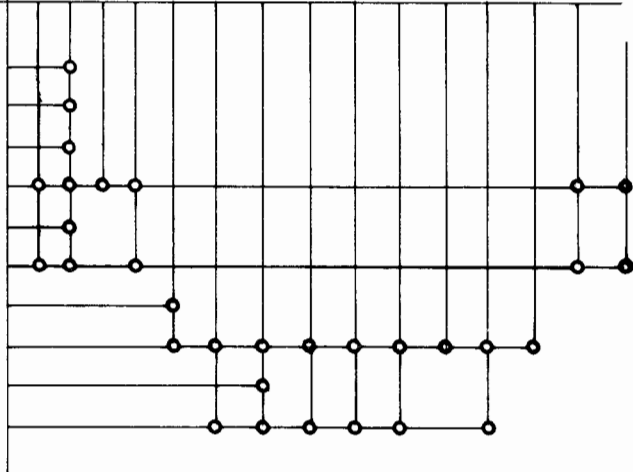
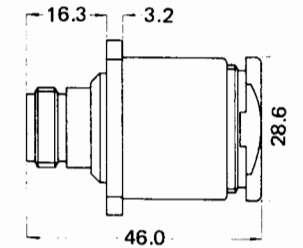
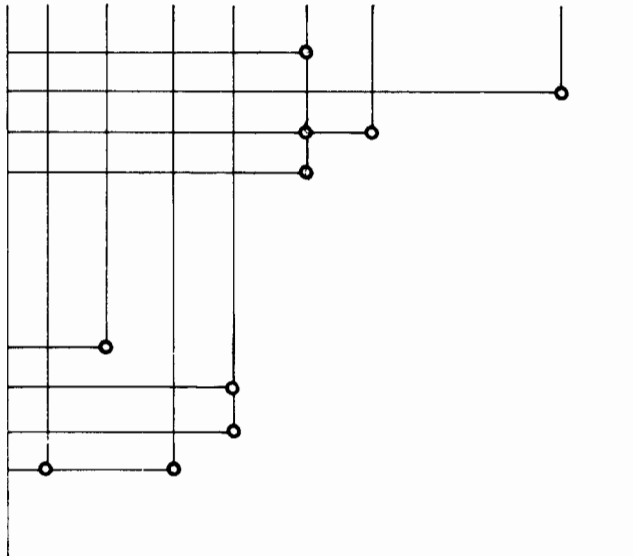
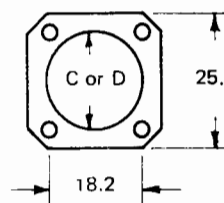
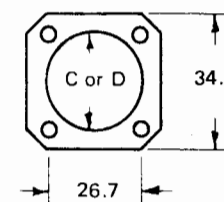
order, please specify GREENPAR
ENGINEERING No., CABLE CLAMP
and CABLE GROUP. e.g. GE 15041C12.

PANEL PIERCING



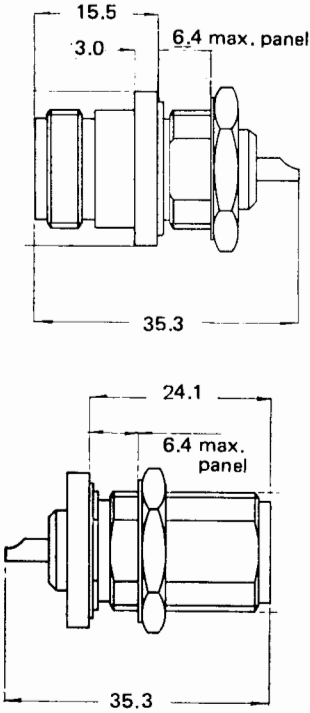
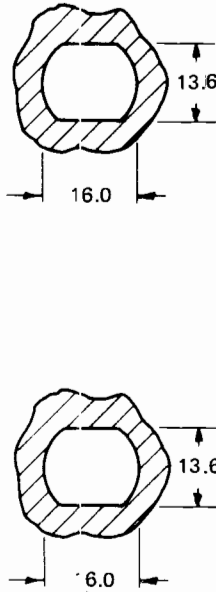
50 ohm and 75 ohm series N

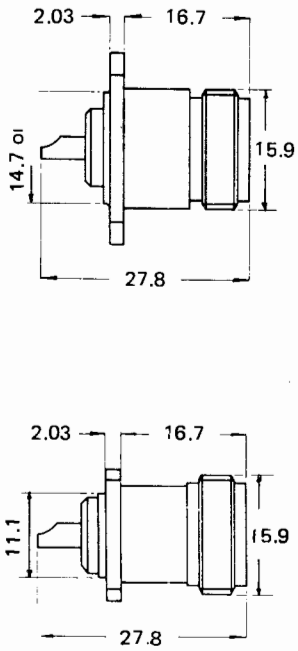
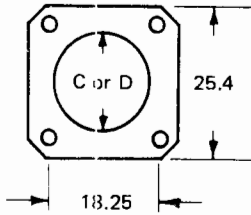
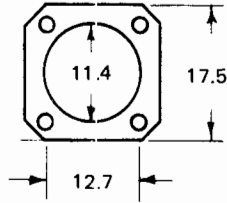
PANEL JACKS

Connector outline	Dim. A B	Assy. data Fig.	Greenpar Eng. No. 50 ohm 75 ohm	Cable clamp	Cable groups 1 4 6 7 10 12 25 27 30 52 60 62 73 79 107																		
PANEL JACKS  *18.3 on 15005 and 17005; 12.7 on 15057 and 17057.	16.5 46.0 16.5 46.0 37.3	15 15 3 or 1 4 3 4 6 7 6 7	15005* 17005* 15006 15006 17006 17006 15057 15057 17057 17057	— — A or — C A C A C A C																			
PANEL JACKS FOR CABLES EXCEEDING 12.7mm. dia. CABLE GROUPS: 18 19 20 81 223 246 248 253 274																							
 *116.5 on 15073 and 17073.	25.4 44.5 25.4 44.5	8 14 14 8 8 8 14 9	15071 15071 17071 17071 15073* 17073* 17073* 15037* 17037*	C W W C C C W C																			
ORDERING INFORMATION To order, please specify GREENPAR ENGINEERING No., CABLE CLAMP, CABLE GROUP and MOUNTING HOLE details. e.g. GE 15073C19H.			<div>MOUNTING DETAILS  CABLES EXCEEDING 12.7mm. dia. </div> <div>MOUNTING HOLE 4 - 40 UNC - F 3.2 mm. dia. - H 6 - 32 UNC - J <table><tr><th colspan="3">Mounting dimensions</th></tr><tr><th>Item No.</th><th>C(rear)</th><th>D(front)</th></tr><tr><td>005 and 006</td><td>16.1</td><td>19.3</td></tr><tr><td>057</td><td>16.1</td><td>14.0</td></tr><tr><td>073</td><td>20.8</td><td>25.6</td></tr><tr><td>071 and 037</td><td>22.1</td><td>—</td></tr></table><p>*Note. Available with 3.2mm. dia. holes (code H) only.</p></div>			Mounting dimensions			Item No.	C(rear)	D(front)	005 and 006	16.1	19.3	057	16.1	14.0	073	20.8	25.6	071 and 037	22.1	—
Mounting dimensions																							
Item No.	C(rear)	D(front)																					
005 and 006	16.1	19.3																					
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50 ohm and 75 ohm series N

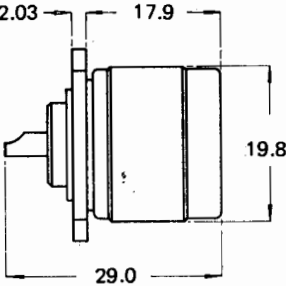
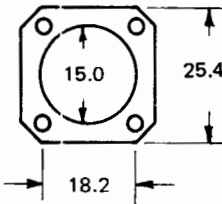
BULKHEAD SOCKETS and PANEL SOCKETS

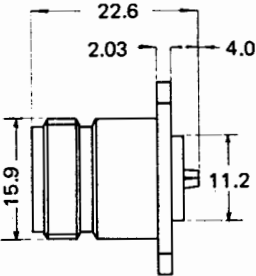
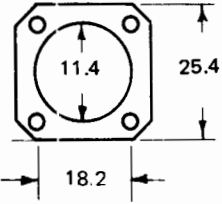
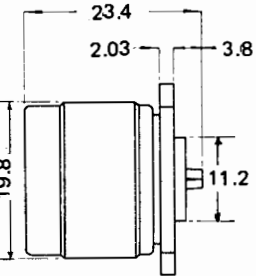
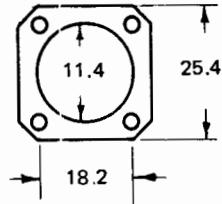
Connector outline	Dim. A B	Greenpar Eng. No. 50 ohm 75 ohm	
BULKHEAD SOCKETS* 		<div>15033 17033</div> <div>15034 17034</div>	PANEL PIERCING  <p>Note. For panel sealed items, add suffix P to GE number.</p>
ORDERING INFORMATION order, please supply GREENPAR ENGINEERING No. and, if relevant, suffix P.			

PANEL SOCKETS			MOUNTING DETAILS	MOUNTING HOLES
	12.0	<div>15007 17007</div> <div>15042</div>	 <p>Dimension C: rear mounting – 16.1 Dimension D: front mounting – 12.2 or 16.1 (007, only)</p> 	<div>6 BA – G</div> <div>4 - 40 UNC – F</div> <div>3.2 mm. dia. – H</div> <div>6 - 32 UNC – J</div> <div>3-56 UNF – E</div> <div>4 - 40 UNC – F</div> <div>6 BA – G</div> <div>3.0 mm. dia. – H</div> <div>2.8 mm. dia. – K</div>
<div>15011 17011</div>				
ORDERING INFORMATION To order, please specify GREENPAR ENGINEERING No. and MOUNTING HOLE details. e.g. GE 15011G				

50 ohm and 75 ohm series N

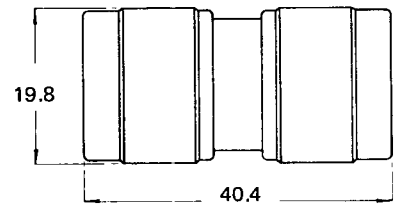
PANEL PLUGS, STRIPLINE PLUGS AND SOCKETS

Connector outline	Greenpar Eng. No. 50 ohm 75 ohm		
PANEL PLUGS 	15020 17020	MOUNTING DETAILS 	MOUNTING HOLES 4 - 40 UNC — F 3.2mm. dia. — H 6 - 32 UNC — J
ORDERING INFORMATION To order, please specify GREENPAR ENGINEERING No., and MOUNTING HOLE details, e.g. GE 15020F			

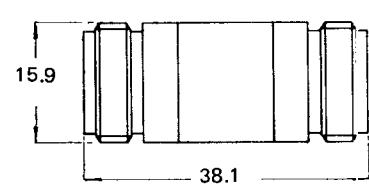
STRIP LINE SOCKETS 	15045	MOUNTING DETAILS  Socket contact on rear face to accept pin 1.65 mm. dia.	4 x 3.2 mm. dia. — HX
STRIP LINE PLUGS 	15046	 Socket contact on rear face to accept pin 1.65 mm. dia.	4 x 3.2 mm. dia. — HX
ORDERING INFORMATION To order, please specify GREENPAR ENGINEERING No. and MOUNTING HOLE details, e.g. GE 15046HX.			

ADAPTORS

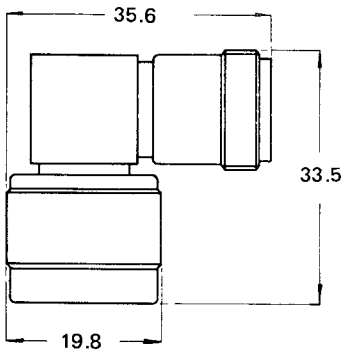
JG STRAIGHT ADAPTORS
50-ohm: GE 15010. 75-ohm: GE 17010.



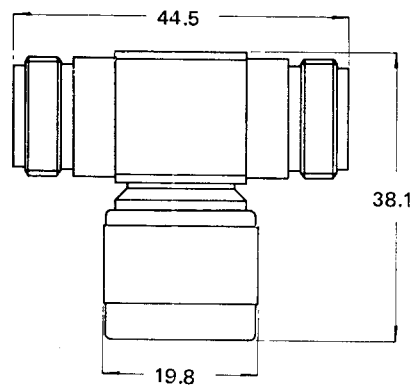
JACK STRAIGHT ADAPTORS
50-ohm: GE 15012. 75-ohm: GE 17012.



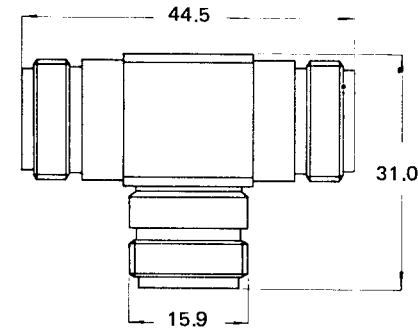
PLUG/JACK ELBOW ADAPTORS
50-ohm: GE 15009. 75-ohm: GE 17009.



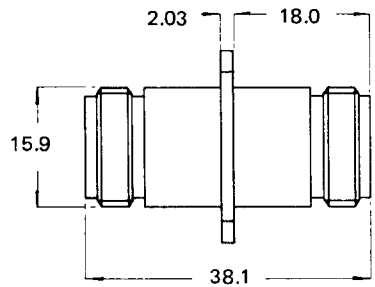
PLUG/JACK T-ADAPTORS
50-ohm: GE 15008. 75-ohm: GE 17008.



JACK/JACK T-ADAPTORS
50-ohm: GE 15029. 75-ohm: GE 17029.



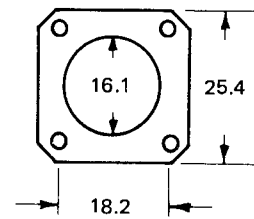
PANEL STRAIGHT ADAPTORS
50-ohm: GE 15030. 75-ohm: GE 17030.



ORDERING INFORMATION

To order, please specify GREENPAR CODE No. and, if relevant, MOUNTING HOLE details. e.g. GE 17030J.

MOUNTING DETAILS



MOUNTING HOLES

- 4 - 40 UNC – F
- 3.2 mm. dia. – H
- 6 - 32 UNC – J

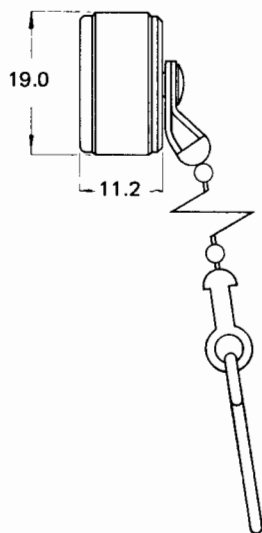
Series N

CAPS AND CHAINS

CAP AND CHAIN FOR SOCKETS AND PANEL JACKS

with 125mm. chain: GE 10001

with 64mm. chain: GE 10004.



CAP AND CHAIN FOR PLUGS AND PANEL PLUGS

GE 10003 (chain length 140mm.)

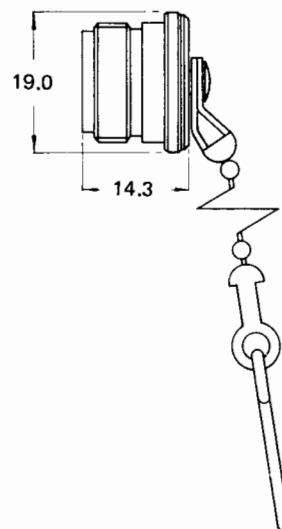


Fig. 1. Improved MIL style braid clamp, non captive centre contact

1. Place clamp nut, flat washer (when provided) and V-groove gasket over cable. Note that groove in gasket is towards free end of cable.
2. Trim outer sheath from cable, to dimension shown.
3. Fit braid clamp over braid so that internal shoulder butts against end of outer sheath.
4. Fold braid back over clamp, avoiding crossed wires. Trim off surplus braid as shown.
5. Trim dielectric to dimension shown, and check conductor length is as specified.
6. Tin centre conductor.
7. Mount contact (male for plugs; female for jacks) over centre conductor to butt against face of dielectric.
8. Hold cable and contact firmly together, and solder.
9. Slide V-groove gasket, flat washer (if applicable) and clamp nut up to braid clamp. Ensure V-groove gasket seats on clamp.
10. Engage clamp nut in body.
11. Holding body and cable rigid, tighten clamp nut to shear V-groove gasket.

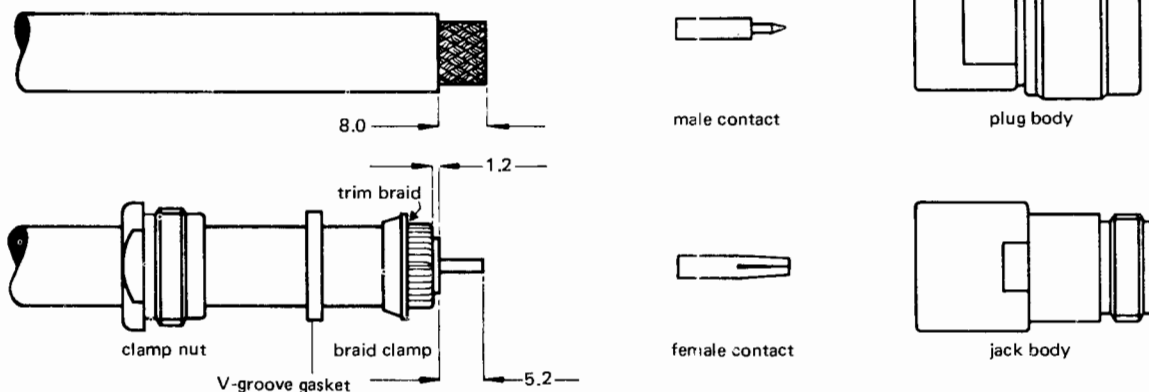


Fig. 2. Improved MIL style braid clamp, non captive centre contact

1. Place clamp nut, flat washer (when provided) and V-groove gasket over cable. Note that groove in gasket is towards free end of cable.
2. Trim outer sheath from cable, to dimension shown.
3. Fit braid clamp over braid so that internal shoulder butts against end of outer sheath.
4. Fold braid back over clamp, avoiding crossed wires. Trim off surplus braid as shown.
5. Trim dielectric to dimension shown, and check conductor length is as specified.
6. Tin centre conductor.
7. Mount contact over centre conductor to butt against face of dielectric.
8. Hold cable and contact firmly together, and solder.
9. Slide V-groove gasket and clamp nut up to braid clamp.
10. Press sub-assembly into body as far as possible.
11. Engage clamp nut in body.
12. Holding body and cable rigid, tighten clamp nut to shear V-groove gasket.

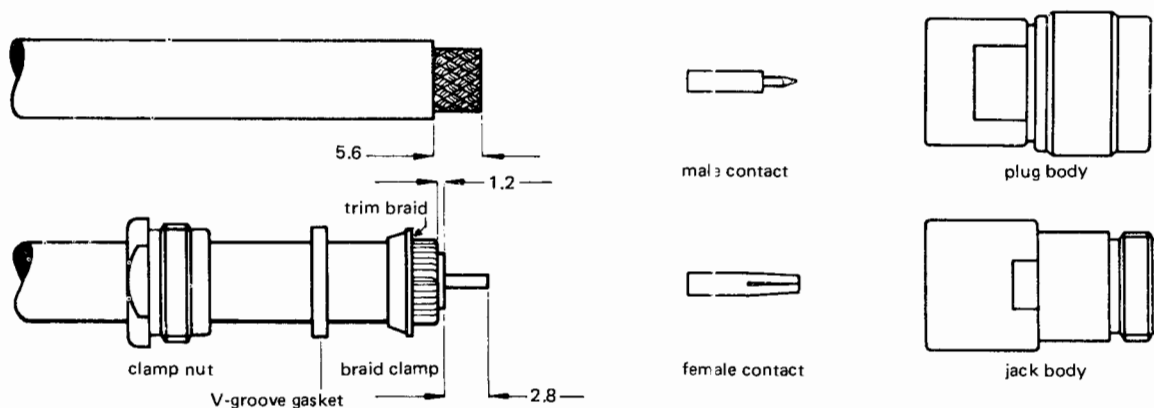


Fig. 3. Improved MIL-style braid clamp, captive centre contact

1. Place clamp nut, flat washer (when provided) and V-groove gasket over cable. Note that groove in gasket is towards free end of cable.
2. Trim outer sheath from cable to dimension shown.
3. Fit braid clamp over braid so that internal shoulder butts against end of outer sheath.
4. Fold braid back over clamp, avoiding crossed wires.
5. Trim off surplus braid as shown.
6. Trim dielectric to dimension shown, and check conductor length is as specified.
7. Tin centre conductor.
8. Slide holding washer and rear insulator over dielectric to butt against braid.
9. Mount contact (male for plugs; female for jacks) over centre conductor with shoulder pressed against rear insulator.
10. Hold cable and contact firmly together, and solder.
11. Slide V-groove gasket, flat washer (when provided) and clamp nut up to braid clamp. Ensure V-groove gasket seats on clamp.
12. Fit front insulator over contact to butt against rear insulator.
13. Press sub-assembly into body as far as possible, and engage clamp nut.
14. Holding body and cable rigid, tighten clamp nut to shear V-groove gasket.

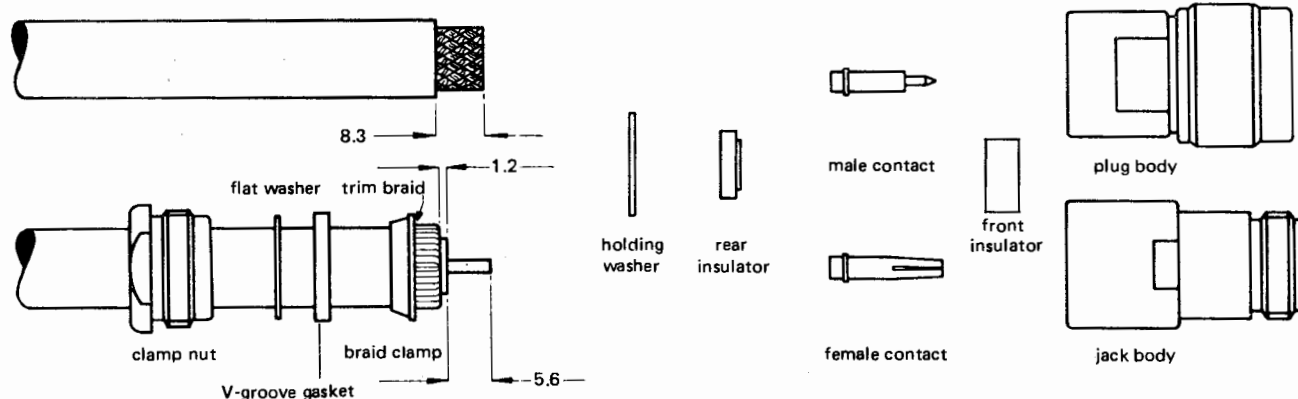


Fig. 4. Pressure sleeve cable clamp, captive centre contact

1. Place clamp nut and plain gasket over cable.
2. Trim outer sheath from cable to dimension shown.
3. Fold back braid and insert ferrule to trap braid between outer sheath and ferrule.
4. Trim off surplus braid as shown.
5. Trim dielectric to dimension shown, and check that exposed centre conductor length is as specified.
6. Tin centre conductor.
7. Slide rear insulator over dielectric to butt against ferrule.
8. Mount contact (male for plugs; female for jacks) over centre conductor with shoulder pressed against rear insulator.
9. Hold cable and contact firmly together, and solder.
10. Slide plain gasket and clamp nut up to ferrule, trapping braid.
11. Fit front insulator over contact to butt against rear insulator.
12. Press sub-assembly into body as far as possible, and engage clamp nut.
13. Holding body and cable rigid, tighten clamp nut to compress plain gasket and retain cable.

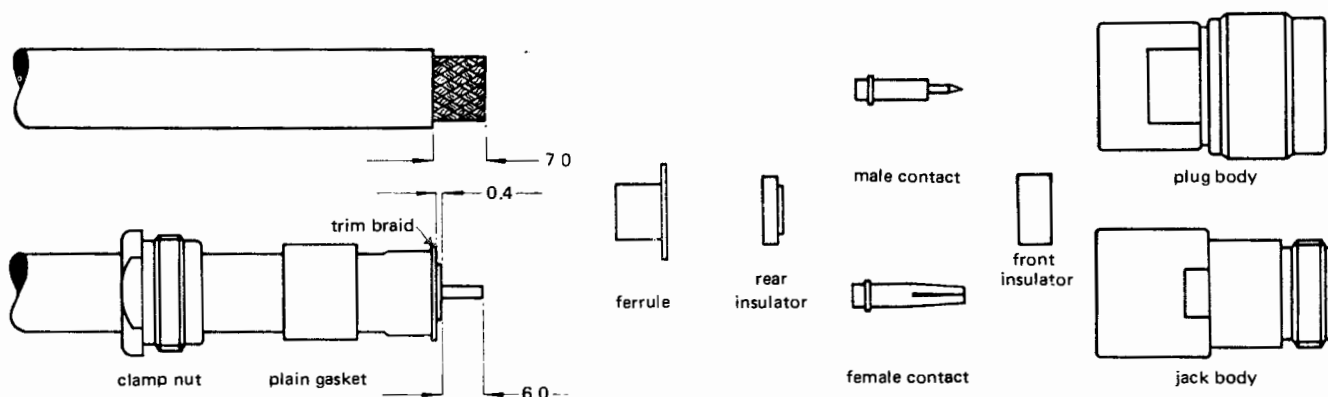


Fig. 5. Improved MIL style braid clamp, non captive centre contact

1. Place clamp nut, flat washer and V-groove gasket over cable. Note that groove in gasket is towards free end of cable.
2. Trim outer sheath from cable to dimension shown.
3. Fit braid clamp over braid so that internal shoulder butts against end of outer sheath.
4. Fold braid back over clamp, avoiding crossed wires.
5. Trim off surplus braid as shown.
6. Trim dielectric to dimension shown, and check conductor length is as specified.
7. Tin centre conductor.
8. Mount male contact over centre conductor to butt against face of dielectric.
9. Hold cable and contact firmly together, and solder.
10. Slide V-groove gasket, flat washer and clamp nut up to braid clamp. Ensure V-groove gasket seats on clamp.
11. Press sub-assembly into body as far as is possible, and engage clamp nut.
12. Holding body and cable rigid, tighten clamp nut to shear V-groove gasket.

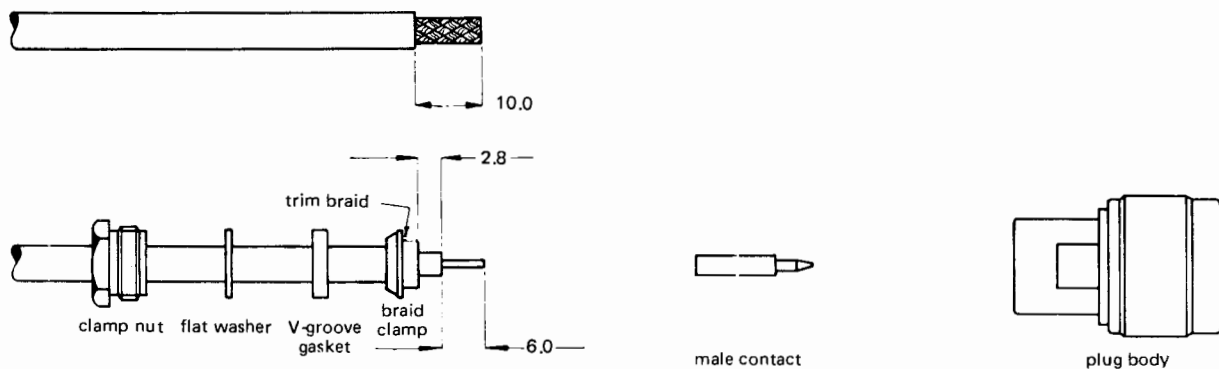


Fig. 6. Improved MIL style braid clamp, captive centre contact

1. Place clamp nut, flat washer (when provided) and V-groove gasket over cable. Note that groove in gasket is towards free end of cable.
2. Trim outer sheath from cable to dimension shown.
3. Fit braid clamp over braid so that internal shoulder butts against end of outer sheath.
4. Fold braid back over clamp, avoiding crossed wires.
5. Trim off surplus braid as shown.
6. Trim dielectric to dimension shown, and check conductor length is as specified.
7. Tin centre conductor.
8. Slide clamp bushing over dielectric to butt against braid, and fit rear insulator to butt against bushing.
9. Mount contact (male for plugs; female for jacks) over centre conductor with shoulder pressed against rear insulator.
10. Hold cable and contact firmly together, and solder.
11. Slide V-groove gasket, flat washer (when provided) and clamp nut up to braid clamp. Ensure V-groove gasket seats on clamp.
12. Fit front insulator over contact to butt against rear insulator.
13. Press sub-assembly into body as far as is possible, and engage clamp nut.
14. Holding body and cable rigid, tighten clamp nut to shear V-groove gasket.

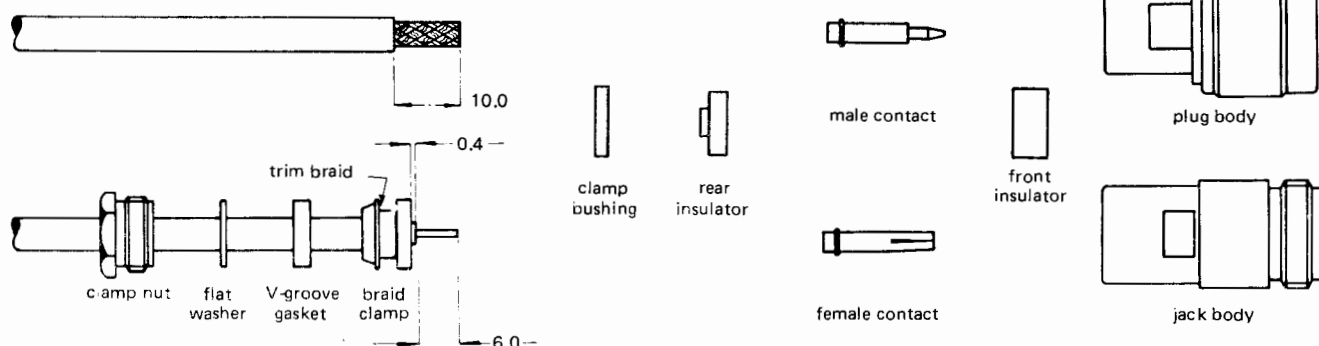


Fig. 7. Pressure sleeve cable clamp, captive centre contact

1. Place clamp nut and plain gasket over cable.
2. Trim outer sheath from cable to dimension shown.
3. Fold back braid and insert ferrule to trap braid between outer sheath and ferrule.
4. Trim off surplus braid as shown.
5. Trim dielectric to dimension shown, and check that exposed centre conductor length is as specified.

6. Tin centre conductor.
7. Slide rear insulator over dielectric to butt against ferrule.
8. Mount contact (male for plugs; female for jacks) over centre conductor with shoulder pressed against rear insulator.
9. Hold cable and contact firmly together, and solder.
10. Slide plain gasket and clamp nut up to ferrule, trapping braid.

For C73 see Figure 10.

11. Fit front insulator over contact to butt against rear insulator.
12. Press sub-assembly into body as far as is possible, and engage clamp nut.
13. Holding body and cable rigid, tighten clamp nut to compress plain gasket and retain cable.

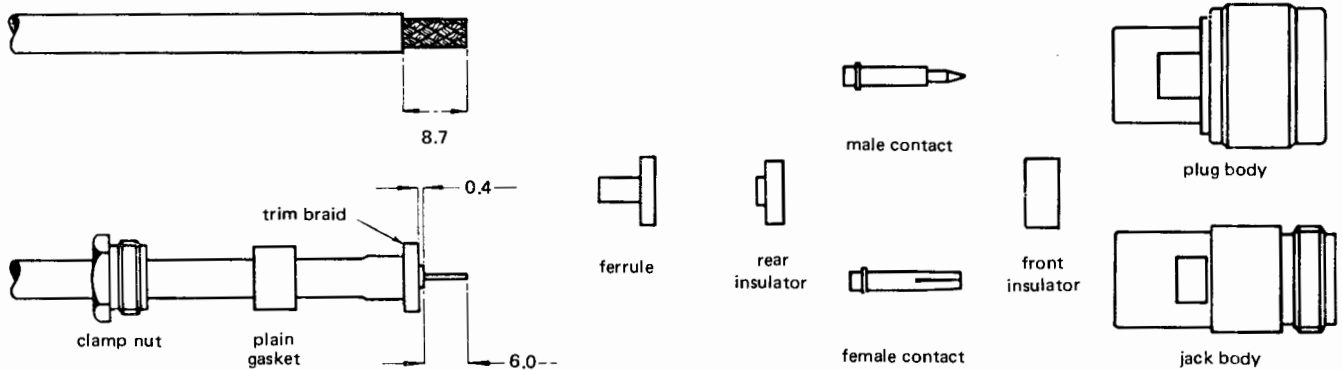


Fig. 8. Pressure sleeve cable clamp, captive centre contact (for large cables)

1. Place clamp nut, flat washers, and plain gasket on cable as shown.
2. Trim 6.4 mm. of outer sheath from end of cable.
3. Fold back braid and insert ferrule to trap braid between outer sheath and ferrule.
4. Trim off surplus braid as shown.
5. Trim dielectric to dimension shown, and check

6. that exposed centre conductor length is as specified.
6. Tin centre conductor.
7. Slide rear insulator over dielectric to butt against ferrule.
8. Mount contact (male for plugs; female for jacks) over centre conductor with shoulder pressed against rear insulator.
9. Hold cable and contact firmly together, and solder.

10. Slide clamp nut, flat washer, and plain gasket up to ferrule, trapping braid.
11. Fit front insulator over contact to butt against rear insulator.
12. Press sub-assembly into body as far as is possible, and engage clamp nut.
13. Holding body and cable rigid, tighten clamp nut to compress plain gasket and retain cable.

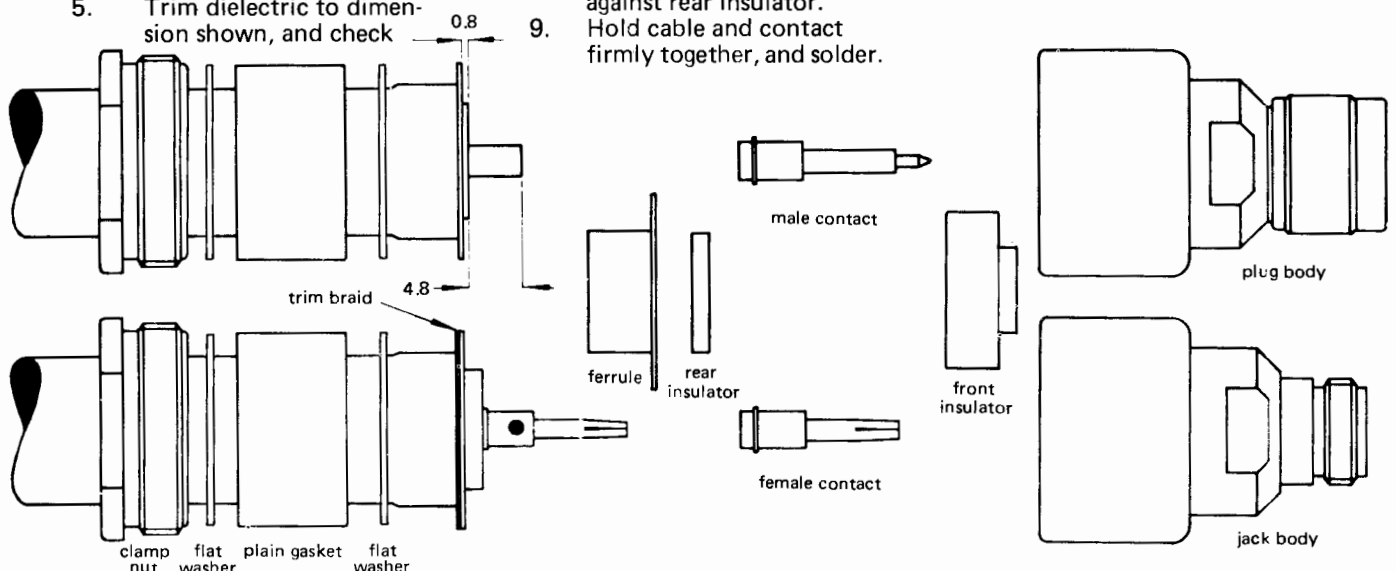


Fig. 9. Pressure sleeve cable clamp, captive centre contact (for large cables)

1. Place clamp nut, flat washers, and plain gasket on cable as shown.
2. Trim 9.1 mm. of outer sheath from end of cable.
3. Fold back braid and insert ferrule to trap braid between outer sheath and ferrule.
4. Trim off surplus braid as shown.
5. Trim dielectric to dimension shown, and check that exposed centre conductor length is as specified.
6. Tin centre conductor.
7. Slide rear insulator over dielectric to butt against ferrule.
8. Mount contact (male for plugs; female for jacks) over centre conductor with shoulder pressed against rear insulator.
9. Hold cable and contact firmly together, and solder.
10. Slide clamp nut, flat washer, and plain gasket up to ferrule, trapping braid.
11. Fit front insulator over contact to butt against rear insulator.
12. Press sub-assembly into body as far as is possible, and engage clamp nut.
13. Holding body and cable rigid, tighten clamp nut to compress plain gasket and retain cable.

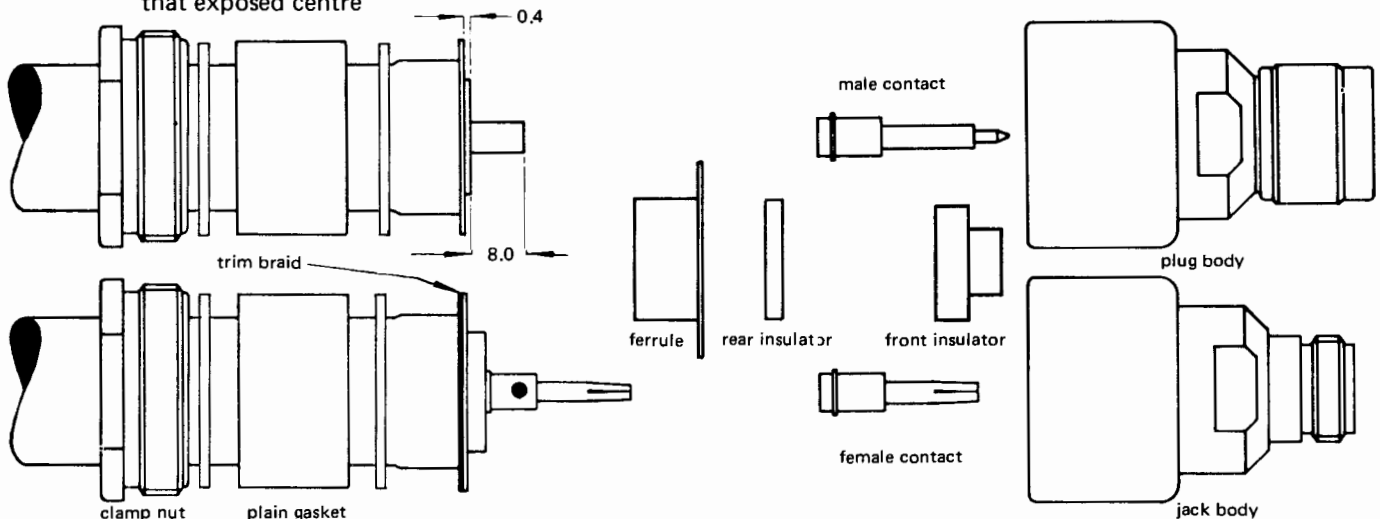


Fig. 10. Clamp for semi-rigid cable C73.

1. Place clamp nut and plain gasket or metal sleeve over outer conductor.
2. Trim outer sheath from cable to dimension shown.
3. Fit ferrule over outer conductor, until conductor butts against internal step of ferrule.
4. Solder ferrule in this position to outer conductor.
5. Trim dielectric flush with face of ferrule.
6. Tin centre conductor.
7. Slide rear insulator over dielectric to butt against ferrule.
8. Place contact onto centre conductor, with collar pressed into recess in rear insulator.
9. Holding contact and cable tightly together, solder securely.
10. Slide gasket or metal sleeve and clamp nut up to ferrule.
11. Press sub-assembly into body as far as possible and engage clamp nut.
12. Holding body and cable rigid, tighten clamp nut firmly.

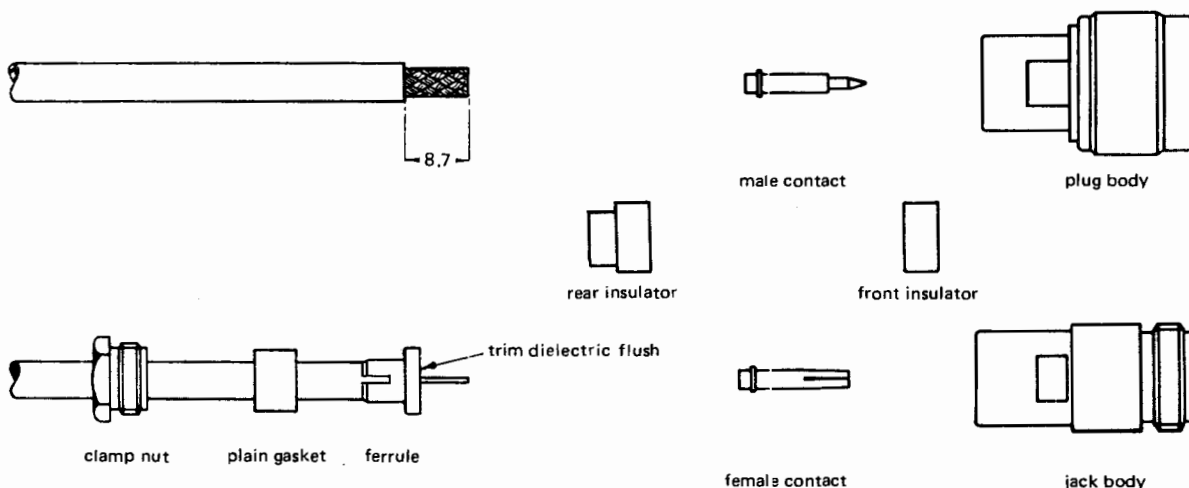


Fig. 11. Improved MIL style braid clamp, non-captive centre contact (bulkhead jacks only)

1. Place clamp nut, flat washer (when provided) and V-groove gasket over cable. Note that groove in gasket is towards free end of cable.
2. Trim outer sheath from cable to dimension shown.
3. Fit braid clamp over braid so that internal shoulder butt against end of outer sheath.
4. Fold braid back over clamp, avoiding crossed wires. Trim off surplus braid as shown.
5. Trim dielectric to dimension shown, and check conductor length is as specified.
6. Tin centre conductor.
7. Mount female contact over centre conductor to butt against face of dielectric.
8. Hold cable and contact firmly together, and solder.
9. Mount holding washer over dielectric, to butt against braid.
10. Slide V-groove gasket, flat washer (if applicable) and clamp nut up to braid clamp. Ensure V-groove gasket seats on clamp.
11. Press sub-assembly into body as far as is possible.
12. Engage clamp nut in body.
13. Holding body and cable rigid, tighten clamp nut to shear V-groove gasket.

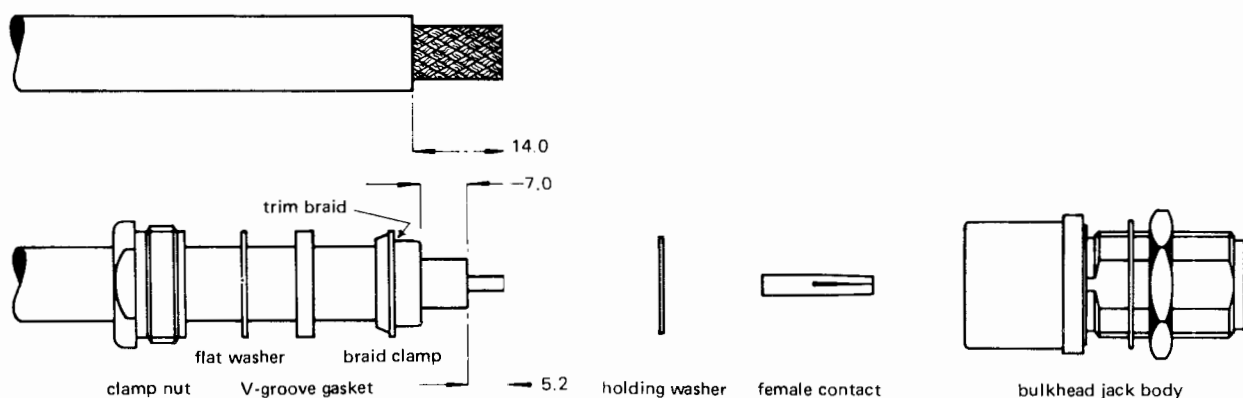


Fig. 12. Improved MIL style braid clamp, captive centre contact (bulkhead jacks only)

1. Place clamp nut, flat washer (when provided) and V-groove gasket over cable. Note that groove in gasket is towards free end of cable.
2. Trim outer sheath from cable to dimension shown.
3. Fit braid clamp over braid so that internal shoulder butts against end of outer sheath.
4. Fold braid back over clamp, avoiding crossed wires.
5. Trim off surplus braid.
6. Trim dielectric to dimension shown, and check conductor length is as specified.
7. Tin centre conductor.
8. Slide holding sleeve over dielectric to butt against braid, and fit rear insulator to butt against sleeve.
9. Mount female contact over centre conductor with shoulder pressed against rear insulator.
10. Hold cable and contact firmly together, and solder.
11. Slide V-groove gasket, flat washer (when provided) and clamp nut up to braid clamp. Ensure V-groove gasket seats on clamp.
12. Fit front insulator over contact to butt against rear insulator.
13. Press sub-assembly into body as far as is possible, and engage clamp nut.
14. Holding body and cable rigid, tighten clamp nut to shear V-groove gasket.

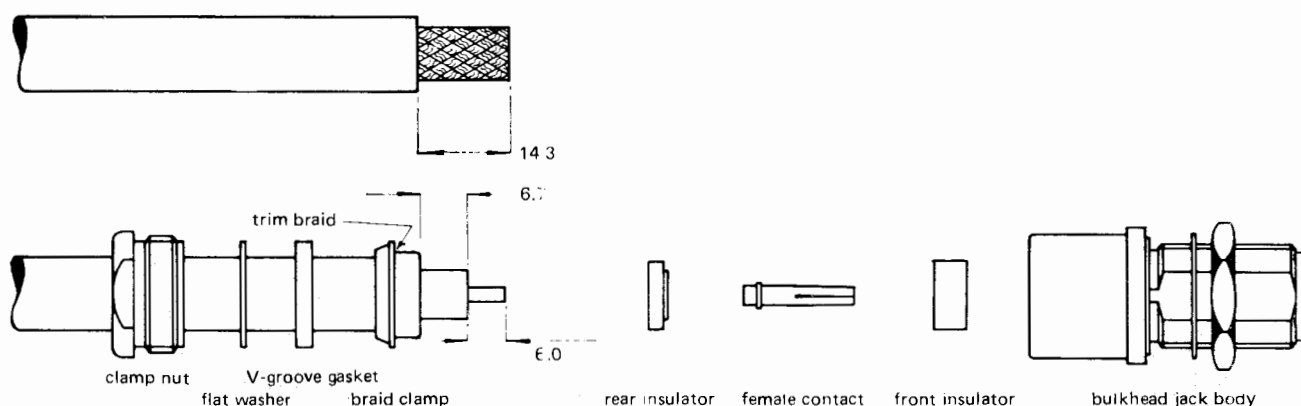


Fig. 13. Pressure sleeve cable clamp, captive centre contact (bulkhead jacks only)

1. Place clamp nut and plain gasket over cable.
2. Trim outer sheath from cable to dimension shown.
3. Fold back braid and insert ferrule to trap braid between outer sheath and ferrule.
4. trim off surplus braid as shown.
5. Trim dielectric to dimension shown, and check that exposed centre conductor length is as specified.
6. Tin centre conductor.
7. Slide holding sleeve over dielectric to butt against ferrule, and fit rear insulator to butt against sleeve.
8. Mount contact over centre conductor with shoulder pressed against rear insulator.
9. Hold cable and contact firmly together, and solder.
10. Slide plain gasket and clamp nut up to ferrule, trapping braid.
11. Fit front insulator over contact to butt against rear insulator.
12. Press sub-assembly into body as far as is possible, and engage clamp nut.
13. Holding body and cable rigid, tighten clamp nut to compress plain gasket and retain cable.

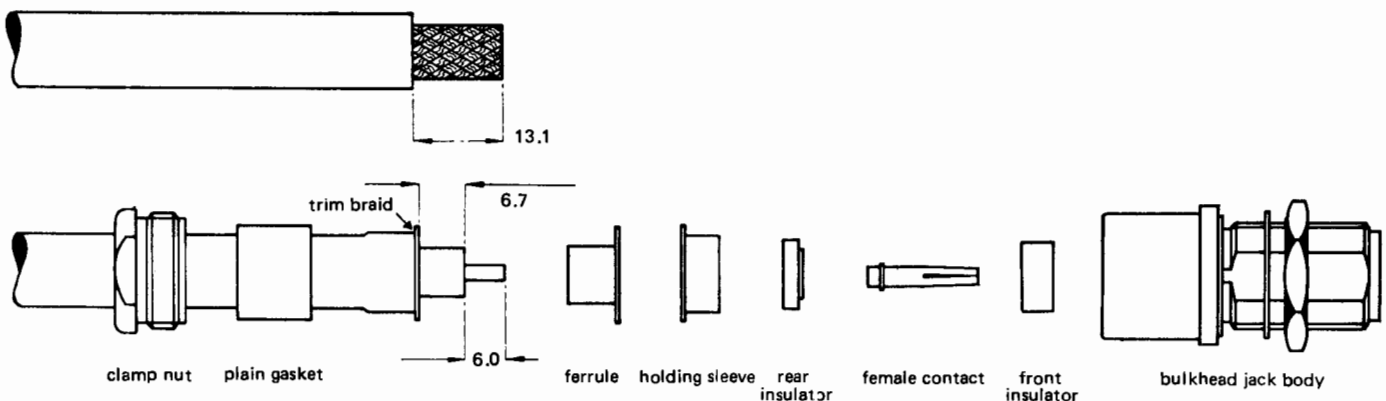


Fig. 14. Plugs and jacks using cables with rigid sheath or screen construction.

1. Place clamp nut and plain gasket over cable.
2. Trim outer sheath from cable to dimension shown, exposing copper wrap.
3. Slide flat washer B (larger internal diameter) over copper wrap.
4. Split copper wrap longitudinally in 5 places around circumference, and fold back to expose dielectric.
5. Slide flat washer A over dielectric, thus trapping
6. Trim dielectric to protrude beyond flat washer A to dimension shown. Check that length of exposed centre conductor is as specified.
7. Slide plain gasket forward to butt against flat washer B.
8. Tin centre conductor.
9. Slide rear insulator over dielectric to butt against flat washer A.
10. Place contact on centre conductor, ensuring that contact flange butts against rear insulator.
11. Hold cable and contact firmly together, and solder.
12. Slide front insulator over contact.
13. Press sub-assembly into body, and engage clamp nut.
14. Holding body and cable rigid, tighten clamp nut to retain cable.

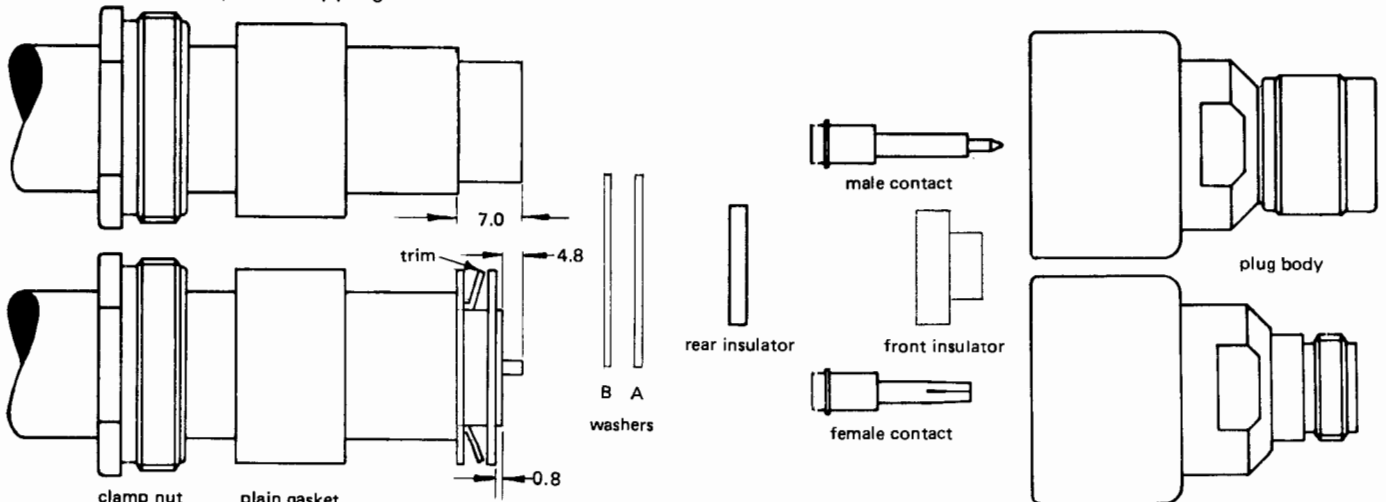
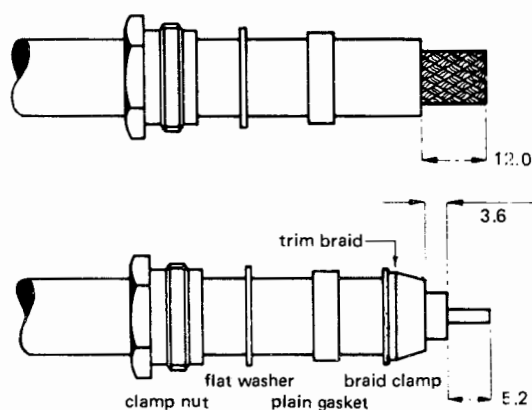


Fig. 15. Original MIL style braid clamp non captive centre contact

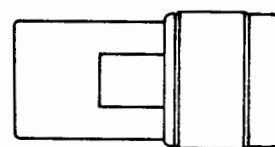
1. Place clamp nut, flat washer (when provided) and plain gasket over cable.
2. Trim outer sheath from cable, to dimension shown.
3. Fit braid clamp over braid so that internal shoulder butts against end of outer sheath.
4. Fold braid back over clamp, avoiding crossed wires.
5. Trim off surplus braid as shown.
6. Trim dielectric to dimension shown, and check conductor length is as specified.
7. Tin centre conductor.
8. Mount contact (male for plugs; female for jacks) over centre conductor to butt against face of dielectric.
9. Hold cable and contact firmly together, and solder.
10. Slide plain gasket, flat washer (when provided) and clamp nut, up to braid clamp.
11. Press sub-assembly into body as far as possible, and engage clamp nut.
12. Holding body and cable rigid, tighten the clamp nut to compress the plain gasket.



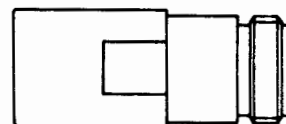
male contact



female contact



plug body



jack body